

**Notice of Allowability****Application No.**

10/554,709

**Examiner**

GREGORY CLARK

**Applicant(s)**

KAWASAKI, HIRAKU

**Art Unit**

1786

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 12/10/2010.
2. ☒ The allowed claim(s) is/are 27-29,31-33,35-42,44-46 and 48-54.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☒ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date 12/08/2010.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_.

/GREGORY CLARK/  
Examiner, Art Unit 1786

### **DETAILED ACTION**

The examiner acknowledges the receipt of applicants' amended claims dated 12/10/2010.

#### **Examiner's Amendment**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Patrick A. Hilsmier on 12/21/2010.

The application has been amended as follows:  
claim 45 has been amended to depend on claim 40

#### **Allowable Subject Matter**

1. The following is an examiner's statement of reasons for allowance as applicant claims:

A plate material, comprising:

a plate substrate being free of protrusions and depressions of submicron order oriented in a thickness direction thereof with a rolling oil being used and remaining on the plate substrate; [and];

a substrate coating formed on a surface of the plate substrate with a corrosion resistant hydrophobic organic paint material, a rolling oil being used and remaining on the plate substrate; a hydrophilic coating made of a hydrophilic paint material being provided on a surface of the substrate coating, the corrosion resistant hydrophobic organic paint material including

a coating film component, the coating film component being a two-component resin, and

an alcohol-based solvent, a content of the alcohol-based solvent being 1 to 10 wt% when the corrosion resistant hydrophobic organic paint material is applied, and applied, the coating film component being a two-component resin;

a hydrophilic coating made of a hydrophilic paint material being provided on a surface of the substrate coating,

the corrosion resistant hydrophobic organic paint material having affinity with respect to both the plate substrate with the rolling oil remaining on the surface and the hydrophilic coating.

2. A search of the prior art did not show the claimed invention. The closest prior art appears to be:

Kamiya (JP 08-269367A) teaches the surface treatment of a plate-like substrate with a coating (paragraph 8 and abstract) made of a resin/formulation is a blend of melamine resin or epoxy resin with an acrylic resin. Kamiya also teaches the surface treatment of a plate-like substrate with a coating to impart a hydrophobic nature (paragraph 8) involving a perfluoroalkyl (hydrophobic organic) group functional silica material (paragraph 10).

Clinnin teaches the treatment of aluminum heat exchange fins with a hydrophilic coating that is corrosion resistant (Column 1, lines 7-12) and the coating prevents the

blockage of air flow by beads of condensed water which would otherwise build up in the narrow spaces between the fins (abstract).

While the prior art (Kamiya and Clinnin) shows plate substrates which have been coated with either a hydrophobic coating or a hydrophilic coating, the prior art does not anticipate or render obvious a plate substrate with rolling oil on the surface where the substrate is coated with a hydrophobic coating and a hydrophilic coating.

3. Claims 27-29, 31-33, 35-42, 44-46 and 48-54 allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### **Conclusion**

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GREGORY CLARK whose telephone number is (571)270-7087. The examiner can normally be reached on M-Th 7:00 AM to 5 PM Alternating Fri 7:30 AM to 4 PM and Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Larry Tarazano can be reached on (571) 272-1515. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/D. Lawrence Tarazano/  
Supervisory Patent Examiner, Art Unit 1786

GREGORY CLARK/GDC/  
Examiner  
Art Unit 1786